

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 2004/016482

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl? H01M 4/58, 4/02, 10/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl? H01M 4/58, 4/02, 10/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-54123 A, (MATSUSHITA ELECTRIC IND CO LTD), 1999.02.26, claims 1-6, examples & WO 98/54779 A1 & EP 917228 A1 & US 2002/61445 A1	1-34
A	JP 2003-173778 A, (KAWASAKI STEEL CORP), 2003.06.20, claims 1-8, examples & WO 2004/11370 A1	1-34
A	JP 2002-87807 A, (HITACHI MAXELL K.K.), 2002.03.27, claims 1-4, examples (no family)	1-34
A	JP 11-343108 A, (OSAKA GAS CO LTD), 1999.12.14, claims 1-10, example 3, 8 & WO 97/18160 A1 & EP 861804 A1 & CN 1202142 A	1-34



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

07.01.2005

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25.1.2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	JP 2004-79344 A, (TOKAI CARBON K.K.), 2004.03.11 claim1, examples (no family)	1-34
P,A	JP 2004-210634 A, (JFE CHEM CORP), 2004.07.29 claims1-28, examples & WO 2004/56703 A1	1-34
A	JP 11-154513 A, (MATSUSHITA ELECTRIC IND CO LTD), 1999.06.08 claims1-8, examples & EP 903799 A2 & US 6420070 B2	1-34
P,A	JP 2004-220926 A, (MATSUSHITA ELECTRIC IND CO LTD), 2004.08.05 claims1-3, examples (no family)	1-34